PRODUCT CONFORMITY CERTIFICATE

This is to certify that the

ISCO 3700 Portable Water & Waste Water Sampler

manufactured by:

Teledyne ISCO
4700 Superior Street
Lincoln
Nebraska
NE 68504
USA

has been assessed by Sira Certification Service
and for the conditions stated on this certificate complies with:

MCERTS Performance Standards for Continuous Water Monitoring Equipment, Version 2.1 (November 2009)

Certification Range :

Lift height 0 to 5 metres

Project No:	16W32991
Certificate No:	Sira MC140245/00
Initial Certification:	04 March 2014
This Certificate Issued	04 March 2014
Renewal Date:	03 March 2019

Technical Director

Approved Site Application

MCERTS is operated on behalf of the Environment Agency by

Sira Certification Service
12 Acorn Industrial Park, Crayford Road, Crayford
Dartford, Kent, UK DA1 4AL
Tel: +44 (0)1322 520500 Fax: +44 (0)1322 520501

The product is suitable for use on applications for compliance with the Urban Wastewater Treatment Regulations.

Any potential user should ensure, in consultation with the manufacturer, that the emission monitoring system is suitable for the process on which it will be installed.

Basis of Certification

This certification is based on the following Test Report(s) and on Sira's assessment and ongoing surveillance of the product and the manufacturing process:

WRc report Report Number UC9847 V0.2 dated December 2013

Product Certified

The 3700 portable waste water sampler consists of the following parts:

- 3700 control panel
- 3700 pump assembly
- 3700 distributor assembly
- Top cover
- Center section
- Bottle base

This certificate applies to all instruments fitted with software version 4.6 onwards (serial number 213A00772 onwards).

Certified Performance

The instrument was evaluated for use under the following conditions:

Ambient Temperature Range: 0°C to 50°C

Test	Results	MCERTS specification
Sample Collection	Flow proportional and timed sampling available Certified for use with single 9, 9.5, 10, and 15 litre composite sample bottles and 24 x 1 liters, 24 x 500 ml, 24 x 350 ml, and 4 x 3.8 litres bottles	Clause 3.1.3
Sample interval	Sample interval range is 1 min to 99 hours, 59 minutes with increments of 1 min is selectable. 4-20mA and pulse inputs are available 1min to 9,999 flow pulses with increments of 1 pulse.	Clause 3.1.4 & 3.1.5
Sample failure	Sample failures are recorded. Fault indicated on display	Clause 3.1.6 & 3.1.7
Sample line diameter	9.5 mm	Clause 3.1.8 >9mm
Sample volume	Sample volume adjustable over the range 10 to 9,990 ml in 1 ml increments increments.	Clause 3.1.9
Maximum volume of a discrete sample that can be set Total storage capacity both by numbers and volumes of individual bottles and in a composite container	9,990 ml The following are available: 9, 9.5, 10, and 15 litre composite sample bottles and 24 x 1 liters, 24 x 500 ml, 24 x 350 ml, and 4 x 3.8 litres bottles	Clause 3.2.1
Maximum sampling head	5 meters	Clause 3.2.2

Test	Results		MCERTS specification
Sample volume error – Time proportional	Expanded Uncertainty (U) 1.67% at 1m 1.82% at 3.5m 1.61% at 7m **Overall: 1.70%**	Mean Error (X) -2.14% at 1m -0.96% at 3.5m -4.96% at 7m **Overall: -2.69%**	Clause 6.2.1 a) <5% <5% <5% <5%
Sample volume error – CVVT	Expanded Uncertainty (U) 2.83% at 1m 3.20% at 3.5m 4.30% at 7m **Overall: 3.44%**	Mean Error (X) -1.79% at 1m -3.71% at 3.5m -1.56% at 7m **Overall: -1.31%**	Clause 6.2.1 b) <5% <5% <5% <5%
Sample line velocity	0.60 m/s at 2m sampling head 0.53 m/s at 3m sampling head 0.53 m/s at 4m sampling head 0.52 m/s at 5m sampling head		Clause 6.2.2 >0.5 m/s >0.5 m/s >0.5 m/s >0.5 m/s
Sample integrity	No statistically significant difference was found in analysis for BOD, COD, total N and total P.		Clause 6.2.3
Sample timing	+2 seconds		Clause 6.2.4 < ±10 sec/24h
Ambient temperature effects • Sampler without sample temperature control	Mean Error (X) 0.99% at 0°C -2.46% at 50°C		Clause 6.2.5 a) <5% <5%

Description:

The 3700 Portable Sampler System consists of a 3700 Sampler Controller mounted on ABS plastic for easy transport and insulated cooling with ice.

The 3700 Sampler Controller is housed in a sealed Noryl plastic enclosure and includes a peristaltic pump to bring the sample to a sample container located in the sampler base. The sample is transported by 3/8" (9.5 mm) I.D. PVC or 3/8" (9.5 mm) I.D. Teflon suction line. The controller is powered by 12V dc and provides user programmable sampler features via a keypad and display on the controller.

General Notes

1. This certificate is based upon the equipment tested. The Manufacturer is responsible for ensuring that on-going production complies with the standard(s) and performance criteria defined in this Certificate. The Manufacturer is required to maintain an approved quality management system controlling the manufacture of the certified product. Both the product and the quality management system shall be subject to regular surveillance according to 'Regulations Applicable to the Holders of Sira Certificates'. The design of the product certified is defined in the Sira Design Schedule for certificate No. Sira MC140245/00

2. If certified product is found not to comply, Sira Certification Service should be notified immediately at the address shown on this certificate.

3. The Certification Marks that can be applied to the product or used in publicity material are defined in 'Regulations Applicable to the Holders of Sira Certificates'.

4. This document remains the property of Sira and shall be returned when requested by the company.